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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,891	12/08/2003	Sang Gyu Jung	1594.1368	9671
21171 75	90 08/18/2005		EXAM	NER
STAAS & HA	LSEY-LLP		JIANG, CH	EN WEN
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			3744	

DATE MAILED: 08/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/728,891	JUNG, SANG GYU
Office Action Summary	Examiner	Art Unit
	Chen-Wen Jiang	3744
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply ply within the statutory minimum of thirty (3 d will apply and will expire SIX (6) MONTH tte, cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		-
1) Responsive to communication(s) filed on 31	May 2005	
	is action is non-final.	
3) Since this application is in condition for allow		s, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1 and 3-12 is/are pending in the approach 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) 1 and 3-6 is/are allowed. 6) ☐ Claim(s) 7 and 10-12 is/are rejected. 7) ☐ Claim(s) 8 and 9 is/are objected to. 8) ☐ Claim(s) are subject to restriction and the subject to restrict the subject to restriction and the subject to restriction and the s	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examination The drawing(s) filed on <u>08 December 2003</u> is. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the Examination is objected to by the Examination is objected.	/are: a)⊠ accepted or b)⊡ o e drawing(s) be held in abeyance ction is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in App ority documents have been re au (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s)		
Attachment(s)	4) 🔲 Interview Sum	nmary (PTO-413)
	Paper No(s)/N	nmary (PTO-413) fail Date rmal Patent Application (PTO-152)

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DETAILED ACTION

Response to Arguments

1. The amendments and arguments presented by the applicant have been duly noted.

However, an update search and further review of the prior art of record has prompted the presentation of new rejections presented below. In view of such, the previous rejections in the first office action have been withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 7,10 and 11 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hull (U.S. Patent Number 1,800,255).

Hull discloses a refrigerator comprising a cooling compartment 20, a machine compartment 21, an expansion valve 27, an evaporator 40, compressor 37 and suction pipe 29. The suction pipe 29 has exposed part and embedded part as shown in the Figure. The form body and tube are made in one piece in this reference.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hull (U.S. Patent Number 1,800,255) in view of Kano et al. (JP 11304338).

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Hull discloses the invention substantially as claimed. However, Hull does not disclose capillary and suction tubes are parallel. Kano et al. discloses capillary and suction tubes are parallel in the same field of endeavor for the purpose of carrying out heat exchange. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the apparatus of Hull with parallel capillary and suction tubes in view of Kano et al. so as to improve efficiency.

Allowable Subject Matter

- 6. Claims 1-6 are allowed.
- 7. Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809.

 The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Chen-Wen Jiang Primary Examiner

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